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APPLICATION NO.	FILING DAT	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/612,990	07/07/2003	Kenji IIda	010194A	1625	
23850	7590 06/0	590 06/05/2006		EXAMINER	
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			NORRIS, JEREMY C		
	1725 K STREET, NW SUITE 1000 WASHINGTON, DC 20006			PAPER NUMBER	
WASHINGT					

DATE MAILED: 06/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		14			
	Application No.	Applicant(s)			
	10/612,990	IIDA, KENJI			
Office Action Summary	Examiner	Art Unit			
	Jeremy C. Norris	2841			
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet wit	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutotry period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a red d will apply and will expire SIX (6) MONT ate, cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 23.	January 2006.				
2a)☐ This action is FINAL . 2b)☒ Th	This action is FINAL . 2b)⊠ This action is non-final.				
• •	,— ,,				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/					
Application Papers					
9) The specification is objected to by the Examir 10) The drawing(s) filed on 07 July 2003 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examir 11.	a) accepted or b) object se drawing(s) be held in abeyand ection is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bure. * See the attached detailed Office action for a list	nts have been received. nts have been received in Apiority documents have been reau (PCT Rule 17.2(a)).	oplication No. <u>09/789,771</u> . received in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	_	ummary (PTO-413) /Mail Date formal Patent Application (PTO-152) 			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 18 October 2005 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by US 6,465,742 (hereafter Hiraoka).

Examiner notes the limitation that the conductive sections be "regulated by abraiding" is a process limitation in a device claim and is thus only considered to the extent that said process impacts the structure. Moreover, it is well settled that the presence of process limitations in product claims, which product does not otherwise

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distinguish over the prior art, cannot impart patentability to that product. (*In re Thorpe,* 227 USPQ 964, 966 (Fed. Cir. 1985))

Hiraoka discloses, referring to figure 4A, a multilayer circuit board comprising: a plurality of cable layers (6a,b) each of which includes electric conductive sections (7); a plurality of first insulating layers (8), each of which encloses said electric conductive sections in each cable layer and fills spaces between said electric conductive section sections, each of said electric conductive sections of each of said cable layers including a cable pattern and a land pad (col. 37, lines 15-25) and post vias (10) electrically connecting said electric conductive sections in one cable layer to those in another cable layer, wherein height of said electric conductive sections in each cable layer are regulated to be equal to that of said first insulating layer enclosing those electric conductive sections (see col. 21, lines 50-68) and a second insulating layer (8) which is formed to enclose said post vias, wherein height of said post vias are regulated to be equal to that of said second insulating layer (see col. 21, lines 50-68) [claim 1].

Response to Arguments

Applicant's arguments filed 18 October 2005 have been fully considered but they are not persuasive. Applicants allege that Hiraoka does not disclose cable layers having electric conductive sections "each of the electric conductive section including a cable pattern and a land pad". However, as noted above, Hiraoka (col. 37, lines 15-25) specifically states "a wiring sheet in which a wiring consisting of a two dimension pattern (cable pattern) having a wiring width of 20 μ m and a land (land pad) diameter of 50 μ m". Thus, it is the position of the Examiner that Hiraoka does indeed disclose each and

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every limitation of the claimed invention. Hence, the rejection of the claim is proper and Applicant's traversal of the rejection on this ground is deemed unsuccessful.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following documents disclose wiring layers where the conductive patterns and the insulation patterns are of substantially equal thicknesses:

US 6,074,728 Ryu,

US 6,274,821 B1 Echigo et al..

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy C. Norris whose telephone number is 571-272-1932. The examiner can normally be reached on Monday - Friday, 9:30 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JCSN

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